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PATENT SPECIFICATION

322,614



Application Date : Nov. 8, 1928. No. 32,606 / 28.

Complete Left : Aug. 7, 1929.

Complete Accepted : Dec. 12, 1929.

PROVISIONAL SPECIFICATION.

Improvements in Radio or Wireless Aerials (Antenna) for Emission or Reception.

I, WALTER RICHARD EVERETT, 13, Campbell Rd., West Croydon, Surrey, British, do hereby declare the nature of this invention to be as follows:—
5 A copper, other metal or metal composition sheet is coiled either tubular, square, triangular or many sided, the coil is joined together in such fashion to allow air spaces between the metal, this

spacing automatically condenses signal 10 and causes an amplifying of signal for emission or reception, the specific coiled shape ensures the aerial (antenna) to be directional in any position.

Dated the Eighth day of November, 1928.

W. R. EVERETT.

COMPLETE SPECIFICATION.

Improvements in Radio or Wireless Aerials (Antenna) for Emission or Reception.

15 I, WALTER RICHARD EVERETT, 13, Campbell Rd., West Croydon, Surrey, British, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

A copper, metal or metal composition sheet is coiled either tubular, square, triangular or many sided, the coil or 25 coils being joined together in such fashion as to allow spaces between the metal, the finish of sheet having bolts or such like fixed through spacers, this spacing condenses signal and causes amplification of 30 signal. A terminal is fixed in sheet for lead in wire, and aerial is insulated from earth.

The use of a metal cylinder and of a plain sheet of metal plate is known. It 35 is also known to use strip or sheet metal formed with strengthening loops or ribs along each side.

According to my invention metal or metal composition in sheet form and insulating material like rubberoid roof covering or such like, both about the same size are formed together into coil shape as shown in the accompanying drawing, Figs. 1, 2, 3, 4 and 5. The 40 coiling of the sheet metal and insulating material together produces an amplifying effect on the signal, my aerial is directional in any position, my aerial

can be placed in a suitable insulated case and placed in the earth and used for 45 emission or reception of signals such insulated casing as porcelain or drainpipe of similar material being suitable. Masts and other gear used now in the wireless broadcasting and transmitting stations 50 such as the B.B.C. use are not needed by my aerial.

In the accompanying drawing. Fig. 1, represents a single coil aerial. Fig. 2, represents end view of Fig. 1. Fig. 3, 55 represents a many sided coil aerial. Fig. 4, represents a double coil aerial. Fig. 5 represents end view of Fig. 4. A represents terminals for lead in wire, B represents spacer bolts to keep coils spaced and insulating material and metal 60 in shape.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim 65 is:—

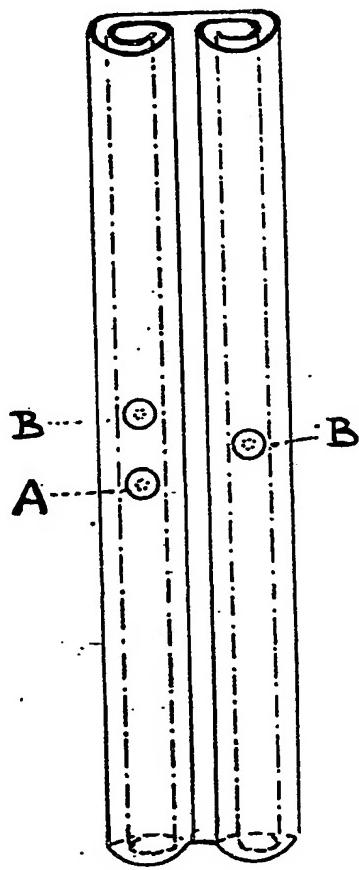
An aerial for wireless transmission or reception, consisting of a sheet of metal and a sheet of insulating material coiled or bent longitudinally substantially as described and illustrated on the accompanying drawings.

14th Nov., 1929.

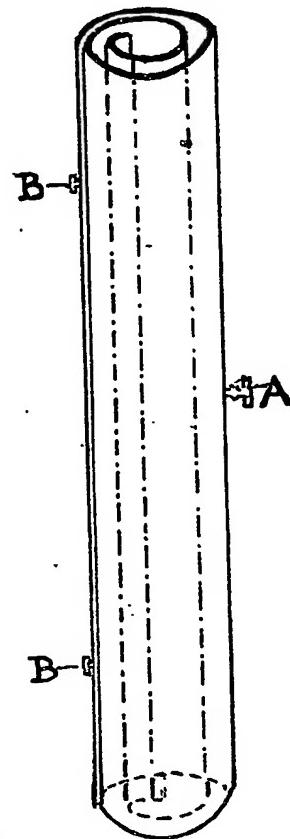
W. EVERETT.

Redhill: Printed for His Majesty's Stationery Office, by Love & Malcomson, Ltd.—1929.

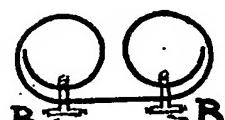
[This Drawing is a reproduction of the Original on a reduced scale]



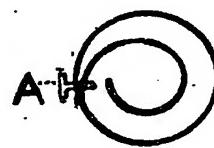
ELEVATION
FIG. 4.



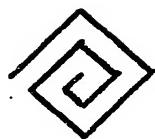
ELEVATION
FIG. 1.



PLAN
FIG. 5.



PLAN
FIG. 2.



PLAN
FIG. 3.